





# **CO & NO2**

#### Carbon Monoxide & Nitrogen Dioxide Sensors

The CO and NO2 Series transmitters monitor carbon monoxide, or nitrogen dioxide, and are designed for the continuous monitoring of vehicle exhaust in non-hazardous areas. A wide spectrum, long life electrochemical sensor measures the amount of carbon monoxide or nitrogen dioxide in the environment. Both the Room and Duct transmitters are offered in a standard NEMA 1 rated ABS Polycarbonate plastic enclosure. An optional NEMA 4X watertight and dust proof enclosure is available with the room transmitter. Other options include an LCD display with (2) SPDT Form 1C relays and a buzzer.

The CO and NO2 Series are covered by ACI's Two (2) Year Limited Warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's web site, www.workaci.com.



## **Specifications**



| Const. William                    |   |                                |  |  |  |  |
|-----------------------------------|---|--------------------------------|--|--|--|--|
| Supply Voltage                    | +24 VDC or 24 VAC Floating or one side ground                     |                                |  |  |  |  |
| Supply Current                    | 100 mA nominal/250 mA maximum                                     |                                |  |  |  |  |
| Accuracy/Repeatability            | +/- 2.5% of Reading/+/- 1.0% of Reading                           |                                |  |  |  |  |
| Operating Range (CO)              | 0-125 ppm (standard)/0-250 ppm (field adjustable)                 |                                |  |  |  |  |
| Operating Range (NO2)             | 0-6 ppm (factory set)/0-10 ppm (field adjustable)                 |                                |  |  |  |  |
| Temperature Range                 | -20° to 40°C (-4° to 104°F)                                       |                                |  |  |  |  |
| Operating Humidity                | 15 to 90%, non-condensing, 0 to 99% Intermittent (non-condensing) |                                |  |  |  |  |
| Coverage Area                     | 7,500 Sq. Ft. maximum   |                                |  |  |  |  |
| Indicators                        | Two line 8 digit Alpha Numberic LCD (standard)                    | (2) Red LED's for Relay Status |  |  |  |  |
| Sensor Type                       | Electrochemical   |                                |  |  |  |  |
| Outputs                           | 4-20 mA, 2-10 VDC, Digital RS-485, (2) SPDT Form 1C Relay         |                                |  |  |  |  |
| Response Time                     | Less than 60 seconds typical for a 90% step change                |                                |  |  |  |  |
| Mounting Height                   | 4 to 6' above floor (CO)/0.5 to 1.5' above floor (NO2)            |                                |  |  |  |  |
| Sensor Life Span                  | 2 to 3 years typical (under normal conditions)                    |                                |  |  |  |  |
| Relay Rating                      | (2) SPDT Form 1C rated @ 1A dry contact                           |                                |  |  |  |  |
| Buzzer Rating                     | Rated for 85 dB @ one foot  |                                |  |  |  |  |
| Operating Pressure                | Atmosphereic +/-10%   |                                |  |  |  |  |
| Product Dimensions (All CO & NO2) | (H) 6.00" (W) 3.50" (D) 1.09"                                     |                                |  |  |  |  |
| Product Dimensions (NEMA 4X)      | (H) 6.60" (W) 4.20" (D) 2.60"                                     |                                |  |  |  |  |
|                                   |   |                                |  |  |  |  |

#### Ordering



Select one Gas Type (A), one Housing (B) (If any "Room Mount" was selected as a Configuration (A)), one Relay/Buzzer (C) & one Display (D).

**Gas Type** 







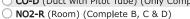
Relay/Buzzer



Display

| $\circ$ | CO- | R | (Room | n) (Co       | omple | te B    | , C 8 |
|---------|-----|---|-------|--------------|-------|---------|-------|
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CO-D (Duct with Pitot Tube) (Only Complete C & D)



NO2-D (Duct with Pitot Tube) (Only Complete C & D)

O ---- (NEMA 1) (Standard) ○ 4X (NEMA 4X)

O ---- (None) (Standard) ○ **RB** (2) (SPDT form 1C) ○ **D** (LCD Display)

O ---- (No Display)

## Build your part number



After completing (A), (B), (C) & (D) from the above table, fill in the Part Number Table below. An example part number is offered.

Α







D

EXAMPLE: CO-D - D